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(57) Abstract: The present invention relates to a process for preparing a heat-resistant thermoplastic resin, especially to a process for preparing a heat-resistant thermoplastic resin having superior heat-stability prepared by mixing a graft ABS polymer and a heatresistant copolymer. The heat-resistant thermoplastic resin prepared by the process of the present invention not only has superior resistant coposymer. The heat-resistant properties, and workability, but also has superior heat-stability.